CLAIMS

1. Composite structure obtained by coupling two or more structures of the type which present pairs of scissors-connected tubular elements whose extremities are hinged in universal joints and in which the universal joints are integral delimited by large, equal and parallel faces preferably substantially parallelepiped in form and which present four seats corresponding to the side faces to accept hinged elements, characterized by the universal joints having grooves along the sides of the face on which the four seats are provided, close to the edge and parallel to the same edge, which cooperate with C-sectioned fixing elements to hold united two matching universal joints from the two structures to be coupled.

2. Composite Structures according to Claim 1, characterized by the structures joined being superimposed and presenting, besides, in the inside surface of the face of the universal joint in which there are seats for hinging the extended elements, a fifth seat in which is fixed the extremity of an extendible telescopic tubular element whose other extremity is fixed to the opposed joint of the underlying universal joint.

3. Structures joined according to Claims 1 or 2, characterized by the C-shaped fixing elements being substantially rectangular sheets of flexible material with two opposite folded and inverted edges.

4. Structures joined according to the Claims 1 to 2, characterized by the folded and inverted edges of the C-shaped fixing elements presenting dimension and shape corresponding to the grooves on the faces of the universal joint.

5. Composite structures according to Claims 1 to 4, characterized by the C-shaped fixing elements being applied only on the external faces of the universal joints that are on the external surface of the structure.

6. Composite structures according to Claims 1 to 4, characterized by the C-shaped fixing elements with inverted edges covering most of the corresponding side faces of the superimposed universal joints and providing for cut-outs corresponding to the seats for the hinged extended elements.

a' cont. 7. Composite structures according to Claims 1 to 6, characterized by the matching faces of the joints of the joined structures presenting one or more suitable perforations to house pivots that prevent any movement on the surfaces of contact of the joints.

8. Universal joints of substantially parallelepiped form providing in one of the larger faces for four hinging seats, corresponding to the side faces, for fixing the extremities of extended elements, characterized by presenting grooves along the sides of the face in which are scheduled seats for hinging the extended elements, in proximity of the edges and parallel to the same edges, that could cooperate with C-sectioned fixing elements to unite two matched universal joints.

9: Universal joints according to Claim 8, characterized by presenting internally to the face carrying the grooves, a fifth seat into which is fixed the extremity of an extendible telescopic tubular element.

add a7 add p7